GROUND VEHICLE SUBDOMAIN ANNEX FOR THE WEAPON SYSTEMS DOMAIN

WS.GV.1   SUBDOMAIN OVERVIEW

A weapon system is a combination of one or more weapons with all related equipment, materials, services, personnel and means of delivery and deployment (if applicable) required for self-sufficiency.

Systems covered within the Ground Vehicle subdomain include all DoD weapon systems on moving ground platforms, except missiles, both wheeled and tracked, manned and unmanned.

WS.GV.1.1   PURPOSE

This annex identifies standards for the Ground Vehicle subdomain of the Weapon Systems domain to include information standards and analogous standards applicable to Ground Vehicle systems.

WS.GV.1.2   BACKGROUND

The standards in this subdomain are based on the work performed by the Army Weapon Systems Technical Architecture Working Group (WSTAWG).

WS.GV.1.3   SUBDOMAIN DESCRIPTION

The subdomain description is given in Section WS.GV.1.

WS.GV.1.4   SCOPE AND APPLICABILITY

The scope of this Subdomain Annex is the entire Ground Vehicle subdomain as defined in Section WS.GV.1.

WS.GV.1.5 TECHNICAL REFERENCE MODEL

The technical reference model used in this subdomain is the DoD TRM which is described in the Weapon Systems Domain Annex. The DoD TRM Service View and Interface View are used as applicable.

WS.GV.1.6 ANNEX ORGANIZATION

This annex is divided into three sections: the Overview in Section WS.GV.1, the additions to the JTA core standards in Section WS.GV.2, and the Subdomain Specific Services in Section WS.GV.3. Section WS.GV.2 follows the JTA Section 2 service area structure. The structure of Section WS.GV.3 will evolve as ground vehicle-specific service areas are identified and a common structure is coordinated among the other annexes.

WS.GV.2 ADDITIONS TO THE JTA CORE

WS.GV.2.1 INTRODUCTION

This section identifies standards for the Ground Vehicles subdomain additional to the standards in the JTA core.

WS.GV.2.2 INFORMATION PROCESSING STANDARDS

There are no additions or emerging standards for the Information Processing Standards section.

WS.GV.2.3 INFORMATION TRANSFER STANDARDS

There are no additions or emerging standards for this section.

WS.GV.2.4 INFORMATION MODELING, METADATA, AND INFORMATION EXCHANGE STANDARDS

There are no additions or emerging standards for this section.

WS.GV.2.5 HUMAN-COMPUTER INTERFACE STANDARDS

There are no additions or emerging standards for this section.

WS.GV.2.6 INFORMATION SYSTEMS SECURITY STANDARDS

There are no additions or emerging standards for this section.

WS.GV.3 SUBDOMAIN SPECIFIC SERVICE AREAS

WS.GV.3.1 APPLICATION SYSTEMS HARDWARE STANDARDS

WS.GV.3.1.1 Additions

WS.GV.3.1.1.1 Hardware Interface Standards

WS.GV.3.1.1.1.1 Bus Interface Standards

- MIL-STD-1553B, Standard for Medium Speed System Network Bus, 21 September 1978, with Notice of Change 1, 12 February 1980, Notice of Change 2, 8 September 1986, Notice of Change 3, 31 January 1993, and Notice of Change 4, 15 January 1996.
- ANSI/VITA 1, VME64 Specification, 1994.
- SAE J 1850, Class B Data Communication Network Interface, 1 July 1995.
- ANSI X3.131, Information Systems - Small Computer Systems Interface - 2 (SCSI-2), 1994.

WS.GV.3.1.1.1.2 General Hardware Interface Standards

- Personal Computer Memory Card International Association (PCMCIA), PC Card Standard, March 1997.
- IEEE 1101.2, Standard for Mechanical Core Specifications for Conduction-Cooled Eurocards (ANSI), 1992.
- EIA 170, Electrical Performance Standards - Monochrome Television Studio Facilities, November 1957.
- EIA 330, Electrical Performance Standards for Closed Circuit Television Camera 525/60 Interlaced 2:1 (ANSI/EIA 330-68), November 1966.
- EIA 343-A, Electrical Performance Standard for High Resolution Monochrome Closed Circuit Television Camera (November 1966), September 1969.
- SMPTE 170M, Television - Composite Analog Video Signal - NTSC for Studio Applications, 1994.

WS.GV.3.1.2 Emerging Standards

– PCI Industrial Computer Manufacturer's Group (PICMG): Compact PCI Specification, R2.1, September 1997.

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